



Control Number: 50595



Item Number: 99

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## Public Utility Commission of Texas

### Employee Training Report Required by 16 Texas Admin. Code § 25.97(d)



**PROJECT NO.** 50595

**AFFECTED ENTITY:** East Texas Electric Cooperative, Inc.

#### General Information

Pursuant to 16 Texas Admin. Code § 25.97(d)(2), not later than the 30th day after the date an affected entity finalizes a material change to a document or training program, the affected entity must submit an updated report. The first report must be submitted not later than May 1, 2020.

#### Instructions

Answer all questions, fill-in all blanks, and have the report notarized in the Affidavit.

#### Affidavit

A representative of the affected entity must swear to and affirm the truthfulness, correctness, and completeness of the information provided by attaching a signed and notarized copy of the Affidavit provided with this form.

#### Filing Instructions

Submit four copies (an original and three copies) of the completed form and signed and notarized Affidavit to:

Central Records Filing Clerk  
Public Utility Commission of Texas  
1701 N. Congress Avenue  
P.O. Box 13326  
Austin, Texas 78711-3326  
Telephone: (512) 936-7180

1. Provide a summary description of hazard recognition training documents you provide your employees related to overhead transmission and distribution facilities.

ETEC provides the following training to its employees requiring training.

(1) Summary of Hazardous Recognition Training for Transmission Facilities

PURA §38.102 requires electric utilities including electric cooperatives and municipally owned utilities to report on its hazard recognition employee training related to overhead transmission and distribution facilities. For the purposes of this training, transmission facilities include those electric facilities operating above 60 kV. One of the challenges to recognizing hazards inherent to transmission facilities is the significant changes in conductor sag for transmission lines. The goal for this training is to educate employees to observe, recognize and report hazardous situations.

Course Outline:

1. Definition of a Hazard
2. Hazards to Report
  - a. Non-compliance with NESC
  - b. Failed System Components
  - c. Failure of Warning Lights/Marker Balls
3. Summary of Clearances for Transmission Facilities
4. Recognition of Changes in Conductor Sag for Long Spans
5. Activities near the Line
  - a. Grading
  - b. Crane Operation OSHA 1926.1408(a)
  - c. Scaffold Clearances OSHA 1926.451(f)
  - d. Construction of Adjacent Buildings/Signs
6. Right-of-way Issues
  - a. Danger Trees
  - b. Dead Trees
  - c. Erosion of the Right-of-Way
7. Priorities of Reported Issues
8. Record Keeping Requirements

Objectives:

1. Define hazards associated with transmission lines.
2. Identify appropriate distance for cranes from power lines.
3. Identify required clearances for transmission line related to roads and buildings.
4. Define a danger tree.

**1. [Continued]** Provide a summary description of hazard recognition training documents you provide your employees related to overhead transmission and distribution facilities.

(2) Summary of Transmission Webinar for PURA §38.102

PURA §38.102 requires electric utilities including electric cooperatives and municipally owned utilities to report on its employee training related to the National Electric Safety Code (NESC) for construction of electric transmission and distribution lines. This webinar discusses the requirements for transmission facilities which are defined as facilities operating above 60 kV. The webinar will not include discussions regarding distribution lines. This training will focus on transmission clearances, strength issues, and access of overhead transmission lines.

Course Outline:

1. Maximum Operating Temperature and Sag Requirements for Transmission Conductors
2. Additional Ground Clearance Requirements for Transmission Lines
  - a. Maximum Operating Voltage
  - b. Elevation above Sea Level
  - c. Electrostatic Effects to Vehicles below the Line.
3. Additional Clearances from Building/Signs
  - a. Deflection of Insulators
  - b. Deflection of Structures
  - c. Clearance Based on Maximum Operating Voltage
  - d. Limited Electrostatic Effects to Buildings and Signs below the Line
4. Mid-span Conductor Clearances
5. Power Lines and Phone Lines Crossing below Transmission Lines
6. Grade of Construction for Voltages Over 22kV
  - a. Guying Strength Requirements
  - b. Under-build Strength Requirements
7. Identification of Climable Supporting Structures

Objectives:

1. Determine appropriate clearances for transmission lines.
2. Define maximum sag for determined clearances.
3. Identify strength requirements for transmission facilities

2. Provide a summary description of training programs you provide your employees related to the National Electrical Safety Code for construction of electric transmission and distribution lines.

ETEC employees responsible for construction of electric transmission or distribution lines are registered professional engineers with knowledge of the National Electrical Safety Code and are required to complete 15 hours of continuing education each year to maintain their certification. This continuing education training is provided by various outside vendors and not by ETEC.

Additionally, ETEC provides the training listed in response to Question 1, above.

Affected Entity: East Texas Electric Cooperative, Inc.

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### AFFIDAVIT

I swear or affirm that I have personal knowledge of the facts stated in this report or am relying on people with personal knowledge, that I am competent to testify to them, and that I have the authority to submit this report on behalf of the affected entity. I further swear or affirm that all statements made in this report are true, correct, and complete.

J. Aaron Wagner  
Signature

J. Aaron Wagner  
Printed Name

Director of Transmission Systems  
Job Title

East Texas Electric Cooperative, Inc.  
Name of Affected Entity

Sworn and subscribed before me this 21<sup>st</sup> day of April, 2020.  
Month Year

Tambra Offield  
Notary Public in and For the State of Texas

My commission expires on 7/17/21

